

RIZWAN KADIWALA
Sr Engineer- Instrumentation & Control
Reliance Industries Limited - Petrochemical Division
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CAREER OBJECTIVE

Expanding my horizons in instrumentation domain by being in a challenging position in an organization providing the opportunity to contribute in the growth of the firm

PROFILE SUMMARY (13+ YEARS OF EXPERIENCE in Petrochemical Industries)

Reliance Industries Experience as Sr Instrument & Control Engineer

HDPE Plant – 7 Years (2008 to 2016)
Gas Cracker Plant – 5 Years (2016 to till date).

Core Competencies:

- ♦ Instrumentation Maintenance
- ♦ Manpower and spares Management
- ♦ Installation & Commissioning
- ♦ Inspection & Testing
- ♦ Breakdown Solutions
- ♦ Shutdown Maintenance
- ♦ Root Cause Analysis

DOMAIN SKILLS

- **Reviewed, executed and commissioned works pertaining to Upgradation of the following systems:**
  - **DCS front end from Yokogawa Centum CS to Centum VP.**
  - **Machine condition monitoring system from BN3300 to BN3500.**
  - **ABB August PLCs to TRICONEX V10.5 PLC for ESD execution.**
- Have attended major shutdowns of Gas Cracker Plant/EOEG Plant/HDPE with Roles and Responsibilities during these shutdowns involving all critical job preparation (material/services/resource requirement) identification and planning and timely execution.

- **Hands on experience on Following control systems.**
  - **DCS : Yokogawa Centum VP**
  - **PLC : Invensys Triconex v10.5**

- **MCMS : Bently Nevada 3500**
- **CCC Antisurge control system**
- **Governor control system Woodward Micronet TMR**
- **Wireless communication network for Wireless instruments**

- Configuring and faults diagnosis of DCS, PLC, SCADA, Analyzers and Control Loops.
- Installation, calibration and loop checking of the field instruments (Emerson Rosemount, ABB, Endress & Hauser, Bently Nevada, Honeywell, Yokogawa, Vega)
- Maintenance and calibration of different type of control valves.
- Experienced in flow meters configuring (electromagnetic, DP Type, ultrasonic, turbine, variable area) of ABB, Rosemount, Krohne etc.
- Designing, Implementing and Commissioning of new control loops as per site requirements.
- Conversant with PFDs, P & Ids, instrument loop drawings, hook-up drawings and instrumentation standards like ISA, IEEE,ANSI, IEC .
- SAP PM (Plant Maintenance) module creating Notifications, Work Orders, Purchase Orders, Service Entry, Out Gate Pass
- SAP-MM (Material Management) module creating Material Requisition, Purchase Requisition etc.
- Experienced in the field instruments and control systems procurement activities.
- Spares balance investigation and inventory control for all instruments' spare parts.
- Excellent communication interpersonal skills.
- Knowledge of PSM (Process Safety Management), Industry Standards, codes and classifications.

Technical support services Experience

- P&ID review & updation
- Cause & Effect documents review and updation
- HAZOP & PHA team member
- Periodic SIL review and updation
- Instrument datasheet (Control valves/ Field instruments) review and updation

RESPONSIBILITIES

- Accountable for maintaining and maximizing reliability & availability of DCS, PLC, Analysers & various other field instruments at Site.
- Improve reliability through Continuous Improvement techniques/ up-gradation / Projects / implementation of advance diagnostic and online condition monitoring techniques.
- Implement and provide inputs to standardize best practices specific to site instrumentation equipment.
- Implement Group guidelines and LFIs for reliability improvement. Incorporate significant Reliability shared lessons learnt into Engineering Technical Procedures
- Carryout Trouble shooting & support for major & critical failures / issues occurring at site
- Participate in reliability & Integrity studies as identified
- Analyse obsolescence and implement asset renewal plan at site
- Review and maintain interlocks and Shutdown systems.
- Maintain Instrumentation testing laboratory
- Participate in turnaround & shutdown activities.
- Identify and Implement energy conservation initiatives.
- Support for Technical Due Diligence for major activities, minor projects, plant expansions and modifications.
- Follow and enforce applicable HSEF procedures/ practices and RIL Group Safety Standards.
- Participate and review RCAs, liquidation of RCA recommendations.
- Support REAM functions with reliability standards & defect elimination efforts.
- Reduce production losses from defects / failures/ breakdowns.
- Conduct periodic audits to identify gaps and ensure instrumentation system operation and maintenance adherence to Group Standards and Best Maintenance Practices.
- Updation /knowledge of SAP related maintenance
- Support for new procurement, FAT/SAT
- Effective implementation of SMPs & PM procedures to reduce plant failures
- Manage Repair & Refurbishment activities
- Interaction with IMMS group, Mumbai for expediting codification of urgent Instrumentation items
- Reviewing and Maintaining IMS documents for Instrumentation Maintenance
- Releasing Material and Service PR of Inst. and their follow up.
- Interaction with various support services Human Resource, Administration, Workshop, planning, security for Inst.
- Interaction with vendor/equipment manufacturers for Inst. discipline.
- Manage learning & development of self & subordinates.
- Ensure HSEF compliance (RESOP, MIQA, CFA, CSM).

- Support for Knowledge management and Documentation management.
- Provide inputs for plant maintenance cost budgeting and optimization of resources.
- Identification, creating Purchase Requisitions for maintaining critical/necessary spares for Instrumentation Automation Systems and Field Instrumentation. Finding substitution/alternatives for the obsolete items through vendor correspondence.
- Member of Process Hazard Analysis (PHA) review team for Gas cracker Plant: Making available technical details and Assisting leaders in analysis of control and safety instrument functions
- Continuous improvisation in plant through Implementation of capex and field change order jobs (MOC- Management Of Change) for operation reliability, better process control or economic benefits.
- Root cause analysis of instrument failure in the plant causing process shutdowns and consequently implementation of proactive measures or recommendation outcomes.
- Review of instrumentation and control design documents, P&IDs, equipment designs and packages for process control systems and emergency shutdown and control schematics, instrumentation wiring diagram, PLC instrumentation loop diagrams.

PROJECTS

INVOLVED IN COMMISSIONING OF FOLLOWING PROJECTS

1) **Gas Cracker Annual Turnaround Dec 2016 to Jan 2017**

- Upgradation of DCS control System – Yokogawa Centum CS to Yokogawa Centum VP
- Upgradation of ESD System – ABB August PLC to Invensys Triconex PLC 10.5
- Upgradation of MCMS System – Bentlly Naveda 3300 to 3500 system

2) **Gas Cracker Ethan Project Sept 2016 to Nov 2016**

- Cable laying and JB installation as per schedule
- Commissioning of field instruments
- Commissioning of DCS system – Yokogawa Centum VP
- Commissioning of ESD System – Invensys Triconex

3) **Invensys Triconex PLC commissioning at Gas Cracker Plant Sept 2016 to Nov 2016**

- System chassis installation as per drawing
- Power supply wiring and termination
- ETA card installation and wiring
- System power up as per checklist

4) **Extruder DBN Feb 2013 to March 2013**

Worked as a team lead in Extruder DBN project which include following activities:

- Cable laying as per cable schedule
- Cable termination and ferruling as per JB schedule
- Instruments like Temperature sensors, pressure sensors, Transmitters, Control Valves installation and calibration
- DCS graphic modification as per new Extruder
- DCS logic medication as per new Extruder
- Loop Checking

5) **Haxane Distillation Capex Jan 2010 to Mar 2010**

- Worked as a team member in Haxane distillation capex at HDPE plant, which include activities like cabling as per JB scheduling, Loop checking, Transmitter and Control valve commissioning and calibration.

6) **Team Member of Project HDPE-2 and UHMW plant commission Sept 2008 to Dec 2009**

- Cable laying as per cable schedule
- Cable termination and ferruling as per JB schedule
- Instruments like Temperature sensors, pressure sensors, Transmitters, Control Valves installation and calibration
- Loop Checking.

TRAININGS

- Trained on Yokogawa Centum VP R5 DCS.
- Woodward Governor Control System – Micronet TMR
- Taken Short term training on PLCs, Online Analyzers, Materials Management and Process Safety Management at Reliance Dahej Learning Center.

EDUCATIONAL QUALIFICATION

Qualification	School/Collage	Board/University	Year of Passing	Percentage
B.Tech(IC)	Nirma University	Nirma University	2007	61.50%
H.S.C.	University Experimental School, Baroda	G.S.E.B	2003	61.23%
S.S.C.	University Experimental School, Baroda	G.S.E.B	2001	84.71 %

PERSONAL DETAILS

Name	: Rizwan Kadiwala
Date of Birth	: 27th June 1985
Gender	: Male
Marital Status	: Married
Nationality	: Indian
Languages known	: English,Hindi,Gujarati
Permanent Address	: B/H Hotel Deluxe, Kadak Bazar, Sayaji Gunj, Vadodara, Gujarat-390020, India
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Interest	: Cricket and travelling